

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (previously presented) A method for capturing at least one image of an existing man-made structure and for detecting the presence of failure(s) in such existing man-made structures comprising:

(a) providing a detectable material on a surface or in an existing man-made structure so that portions of the detectable material will be present in the failure(s) of the existing man-made structure that accentuates the failure;

(b) providing an image sensor and which captures at least one image of the existing man-made structure and identifies failure(s) due to the existence of the detectable material in the failure(s) to provide at least one digital image; and

(c) processing the captured digital image(s) to provide a visual image of the existing man-made structure to determine the presence of failure(s) in the existing man-made structure.

2. (original) The method of claim 1 wherein the image sensor is spaced remotely from the existing man-made structure and further including:

(d) sending captured processed digital images with detected failures to a customer.

3. (original) The method of claim 1 wherein the digital image processing includes comparing previously captured digital images with newly captured digital image(s) to determine variations in the captured digital image(s) at predetermined coordinates which indicate a potential failure in the existing man-made structure.

4. (previously presented) The method according to claim 1 wherein the digital image(s) is captured by a capture device which is located in a fixed structure position above a ground location or in a moving structure including an aircraft or satellite.

5. (original) The method of claim 3 wherein the image processing includes storing in memory a representation of different failures to be detected and comparing the captured digital image with the failures to determine the presence of a failure, and location of such failure.

6. (original) The method of claim 1 wherein the detectable material interacts with incident radiation to cause radiation from the failure in the existing man-made structure to be detected by the image sensor.

7 (original) The method of claim 6 wherein the detectable material includes encapsulated dyes or phosphors.

8. (original) The method of claim 6 wherein the detectable material is included in a liquid solution or solid solution which is distributed on the failure in the existing man-made structure.

9. (currently amended) The method ~~me-hod~~ of claim 6 where the detectable material is a lanthanide, and wherein the lanthanide is combined with halogen elements to form a detectable halide.

10. (original) The method in claim 6 where the detectable material include cholesteric characteristics and change their orientation based on thermal equilibrium with the surroundings and to thereby exhibit a different color that can be detected by the image sensor.